June 6, 2005

Hazardous, Toxic and Radioactive Waste
Center of Expertise

Mike Schmitt
STL Denver
4955 Yarrow Street
Arvada, CO 80002

Dear Mr. Schmitt:

This correspondence addresses the recent evaluation of STL Denver of Arvada, CO for the U.S. Army Corps of Engineers (USACE) for radiological analysis in support of the USACE Hazardous, Toxic and Radioactive Waste Program.

Your laboratory is now validated for the parameters listed below:

METHOD[1]	PARAMETERS	MATRIX[2]
300.0/9056	Anions[5]	Water[3]
300.0/9056	Anions[5]	Solids[3]
1664A	Oil and Grease (HEM)	Water[3]
9071B	Oil and Grease (HEM)	Solids[6]
9010B/9012A	Cyanide	Water[3]
9010B/9012A	Cyanide	Solids[3]
3535/8330	Explosives	Water[6]
8330	Explosives	Solids[3]
3535/8321A	Explosives	Water[6]
8321A	Explosives	Solids[3]
8151A	Herbicides	Water[3]
8151A	Herbicides	Solids[3]
9071B	Oil & Grease	Solids[3]
3510C/8081A	Organochlorine Pesticides	Water[3]
3550B/8081A	Organochlorine Pesticides	Solids[3]
3510C/8082	Polychlorinated Biphenyls	Water[3]
3550B/8082	Polychlorinated Biphenyls	Solids[3]
3510C/8310	Polynuclear Aromatic Hydrocarbons	Water[3]
3550B/8310	Polynuclear Aromatic Hydrocarbons	Solids[3]

3520C/8270C	Semivolatile Organics	Water[3]
3550B/8270C	Semivolatile Organics	Solids[3]
3010A/6010B/7470A	TAL Metals[4]	Water[3]
3050B/6010B/7471A	TAL Metals[4]	Solids[3]
3020A/6020	TAL Metals[4]	Water[3]
3050B/6020	TAL Metals[4]	Solids[3]
9060	Total Organic Carbon	Water[3]
9060 Mod	Total Organic Carbon	Solids[6]
3510C/Mod 8015	TPH – DRO	Water[3]
3550B/Mod 8015	TPH – DRO	Solids[3]
5030B/Mod 8015	TPH – GRO	Water[3]
5035/Mod 8015	TPH - GRO[7]	Solids[3]
5030B/8260B	Volatile Organics	Water[3]
5035/8260B	Volatile Organics	Solids[3]
DEN-RAD-0009	Gamma Emitting Radionuclides	Water[6]
DEN-RAD-0009	Gamma Emitting Radionuclides	Solids[6]
DEN-RAD-0004	Americium, Plutonium, Thorium, and Uranium by Alpha Spectrometry	Water[6]
DEN-RAD-0004	Americium, Plutonium, Thorium, and Uranium by Alpha Spectrometry	Solids[6]
DEN-RAD-0005	Calibration, Use and Maintenance of the Alpha Spectrometer	NA[6]
DEN-RAD-0007	Radium-226 in Water by Precipitation and GFPC Counting	Water[6]
DEN-RAD-0003	Gas Flow Proportional Counter – Calibration, Usage, and Maintenance	NA[6]

Remarks:

1) Sample preparation methods have been added to reflect program policy change.

2) 'Solids' includes soils, sediments, and solid waste.

3) The laboratory has successfully analyzed a Proficiency Testing (PT) sample for this method/matrix.

4) TAL Metals: Aluminum, antimony, arsenic, barium, beryllium, cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, mercury, nickel, potassium, selenium, silver, sodium, thallium, vanadium, and zinc.

5) Anions: Chloride, fluoride, sulfate, nitrate, nitrite, and ortho-phosphate.

6) Approval for this parameter is based on review of SOPs only.

7) Approval is for Method 5035 medium-level (methanol extraction) method only.

Enclosed for your information is a copy of the Laboratory Inspection and Evaluation

Report. Only radiological parameters were evaluated during the on-site inspection. Your laboratory has responded to the deficiencies as noted in the report. No further responses are necessary.

Approval for chemical parameters was previously established and was based on acceptable past performance, successful analysis of the National Environmental Laboratory Accreditation Conference Proficiency Testing samples and review of SOPs and laboratory Quality Management documentation. Approval for radiological parameters is based on review of the laboratory's SOPs; the results of the laboratory inspection, the Corrective Action Report, and the laboratory's analysis of Performance Evaluation samples from commercial suppliers and for the DOE Quality Assessment Program (QAP). The evaluation, which was conducted for your facility, is based substantially on ISO Guide 25 (General Requirements for the Competence of Testing Laboratories) and USACE Engineering Manual (EM) 200-1-3, Appendix I (Shell for Analytical Chemistry Requirements). The period of validation has been previously established and expires on September 14, 2006.

The USACE reserves the right to conduct additional laboratory inspections or to suspend validation status for any or all of the listed parameters if deemed necessary. It should be noted that your laboratory may not subcontract USACE analytical work to any other laboratory location without the approval of this office. This laboratory validation does not guarantee the delivery of any analytical samples from a USACE Contracting Officer Representative.

Any questions or comments can be directed to Dr. Jan Dunker at (402) 697-2566.

Sincerely,

Marcia C. Davies, Ph.D.
Director, USACE Hazardous,
Toxic and Radioactive Waste
Center of Expertise

Enclosure